

FORMATION OF POROUS ALUMINA COATING FILM ON INORGANIC CARRIER

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Abstract

PURPOSE: To form macropores, by applying slurry containing activated alumina onto the surface of an inorganic carrier, freeze-thawing said carrier and then baking it.

CONSTITUTION: In forming macropores on the surface of an inorganic carrier of cordierite or ceramics, activated alumina such as gamma, delta or theta alumina after being kneaded with aluminum hydroxide hydrate, nitric acid, acetic acid, etc. is applied onto the surface of said inorganic carrier. Then, the carrier is freezed and vacuum dried. Hence, the coagulation of activated alumina particles can be inhibited, and uniform cavities three-dimensionally connected with each other from the inner part to the entire surface of the coating layer can be formed.

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